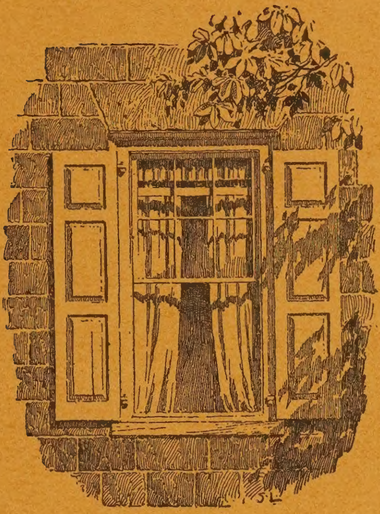
The LUNKEN-WINDOW
Book · of · Details
HEAVY · CONSTRUCTION



The LUNKEN-WINDOW-Co
ARCHITECTURAL DEPARTMENT
512 Fifth Avenue, New York
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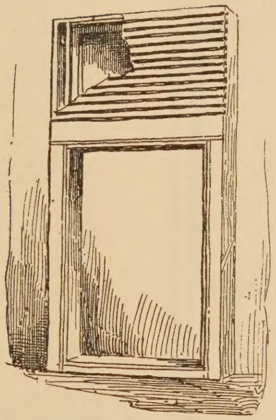
THE LUNKEN WINDOW COMPANY
DETAILS OF FIREPROOF CONSTRUCTION

THE installation of Lunken Windows in fireproof buildings involves but one problem, which is the presence of the boxhead in the wall at the plane of the floor above. It is obvious that the boxhead and the structural parts supporting the wall and floor must occupy spaces in close proximity to each other. These elements must be so placed that no interference exists.

Two types of fireproof construction are in general use; reinforced concrete and steel skeleton frames. Spandrel girders are of two types; those that support the wall only and those that support both the wall and floor. The depth of the reveal of the window opening in the masonry is the remaining factor to be considered in this connection.

The sketches here shown are intended to illustrate the conditions as above stated. These are typical of each condition and it is readily understood that each individual building presents its own problem. The fundamental principle involved remains the same in all cases. It is to suggest the method of providing for the installation of Lunken Windows in fireproof buildings that these sketches are presented. The engineering services of The Lunken Window Company are at the command of those who desire them.



The Lunken Window as delivered for installation in the building.

All questions pertaining to the installation of Lunken Windows in fireproof buildings should be addressed to

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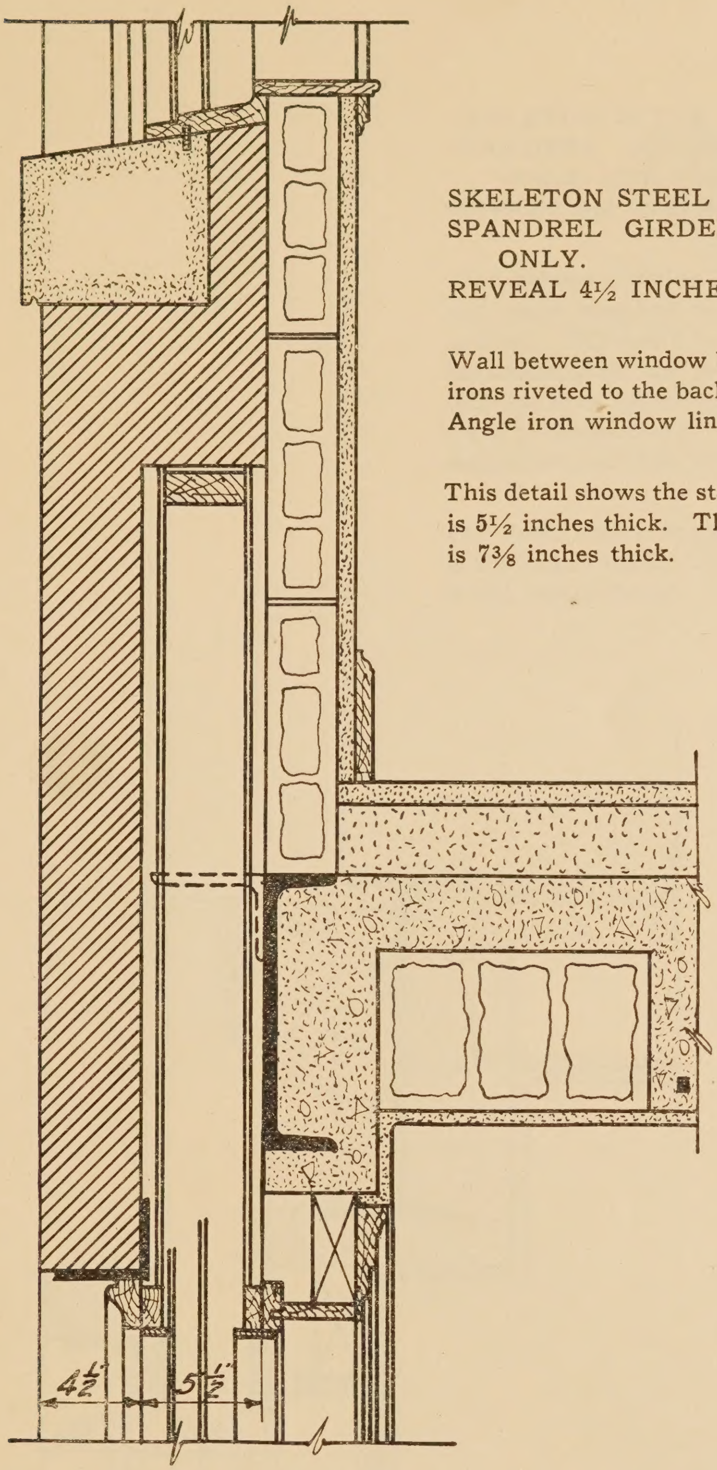
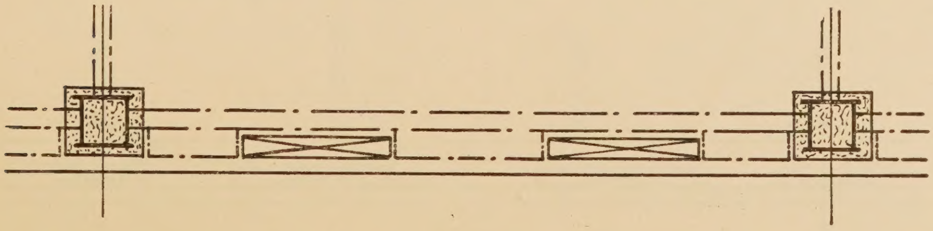
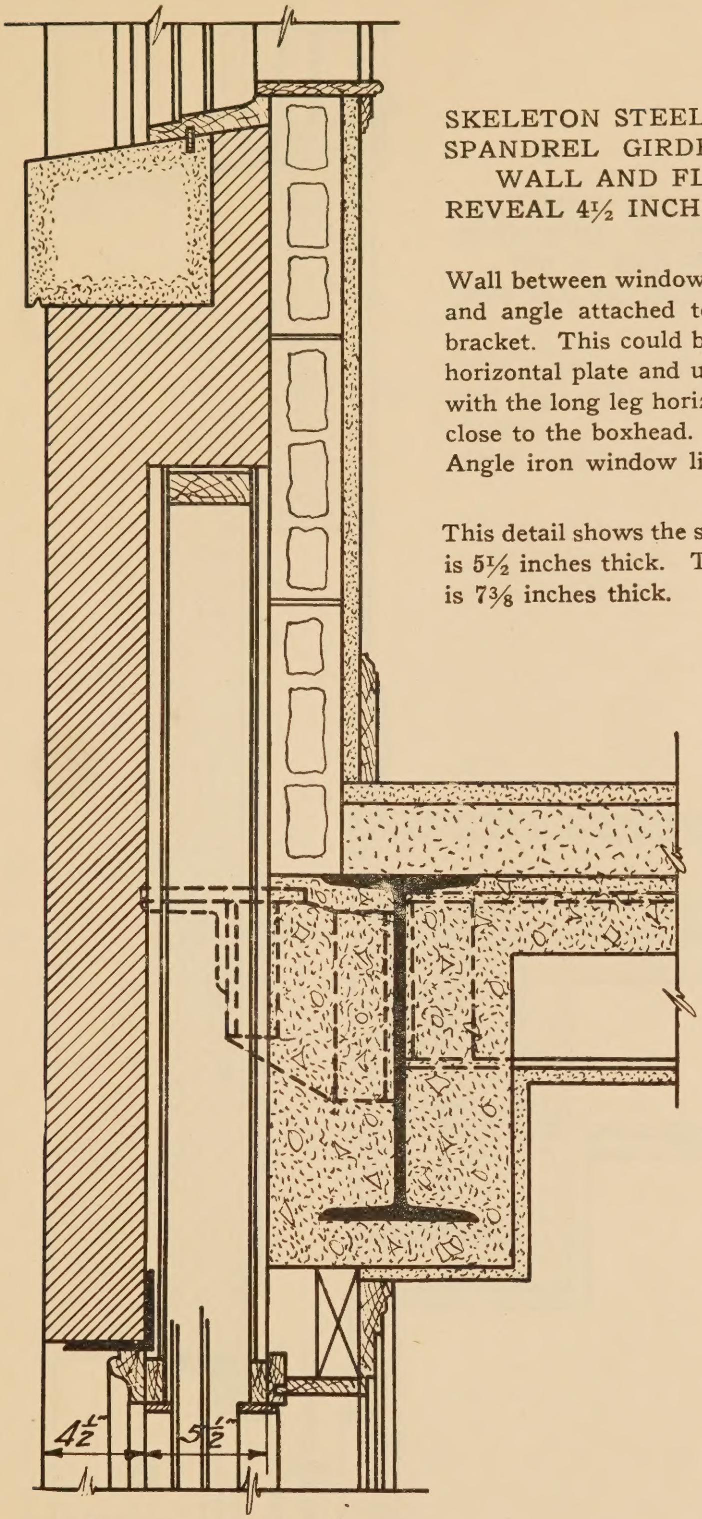


SKELETON STEEL FRAME.
SPANDREL GIRDER SUPPORTING WALL ONLY.
REVEAL 4½ INCHES.

Wall between window boxheads supported by angle irons riveted to the back of the channel beam girder. Angle iron window lintels.

This detail shows the standard two sash frame which is 5½ inches thick. The standard three sash frame is 7⅜ inches thick.

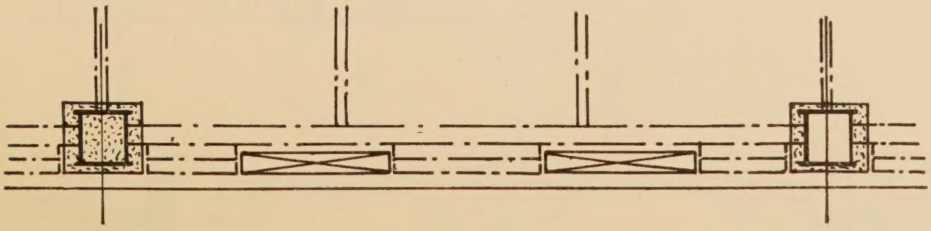




SKELETON STEEL FRAME.
SPANDREL GIRDER SUPPORTING BOTH WALL AND FLOOR.
REVEAL 4½ INCHES.

Wall between window boxheads supported by plate and angle attached to I beam girder by lookout bracket. This could be modified by eliminating the horizontal plate and using an unequal legged angle with the long leg horizontal and moving the I beam close to the boxhead.
Angle iron window lintels.

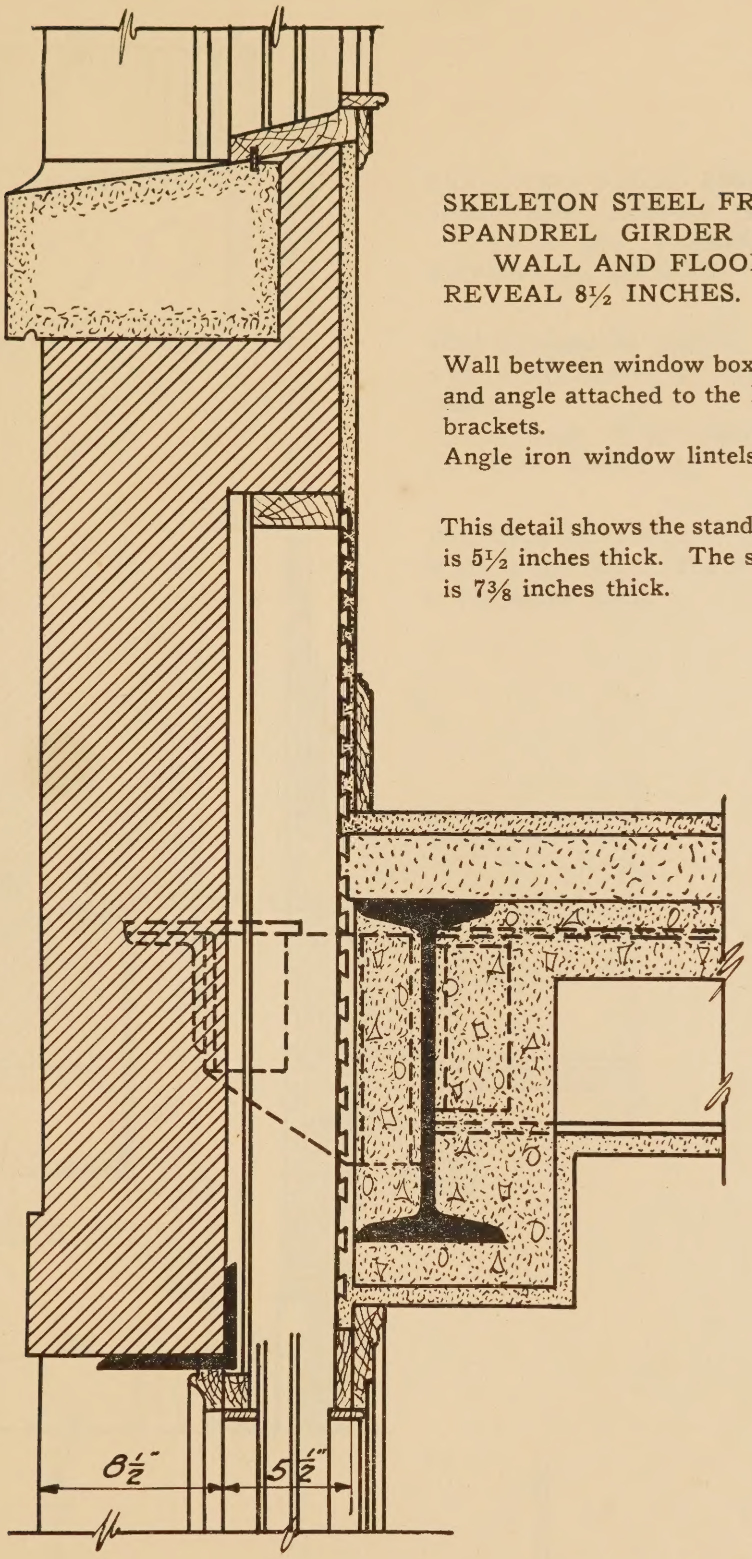
This detail shows the standard two sash frame which is 5½ inches thick. The standard three sash frame is 7⅜ inches thick.

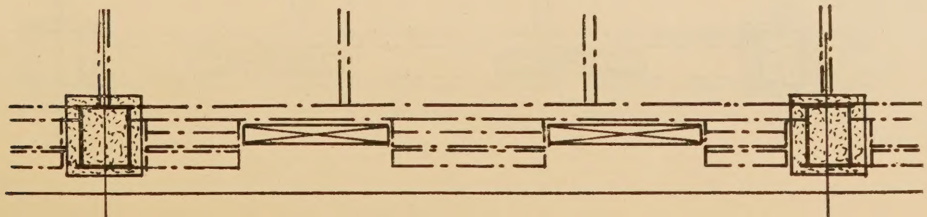


SKELETON STEEL FRAME.
SPANDREL GIRDER SUPPORTING BOTH WALL AND FLOOR.
REVEAL 8½ INCHES.

Wall between window boxheads supported by plate and angle attached to the I beam girder by lookout brackets.
Angle iron window lintels.

This detail shows the standard two sash frame which is 5½ inches thick. The standard three sash frame is 7⅜ inches thick.





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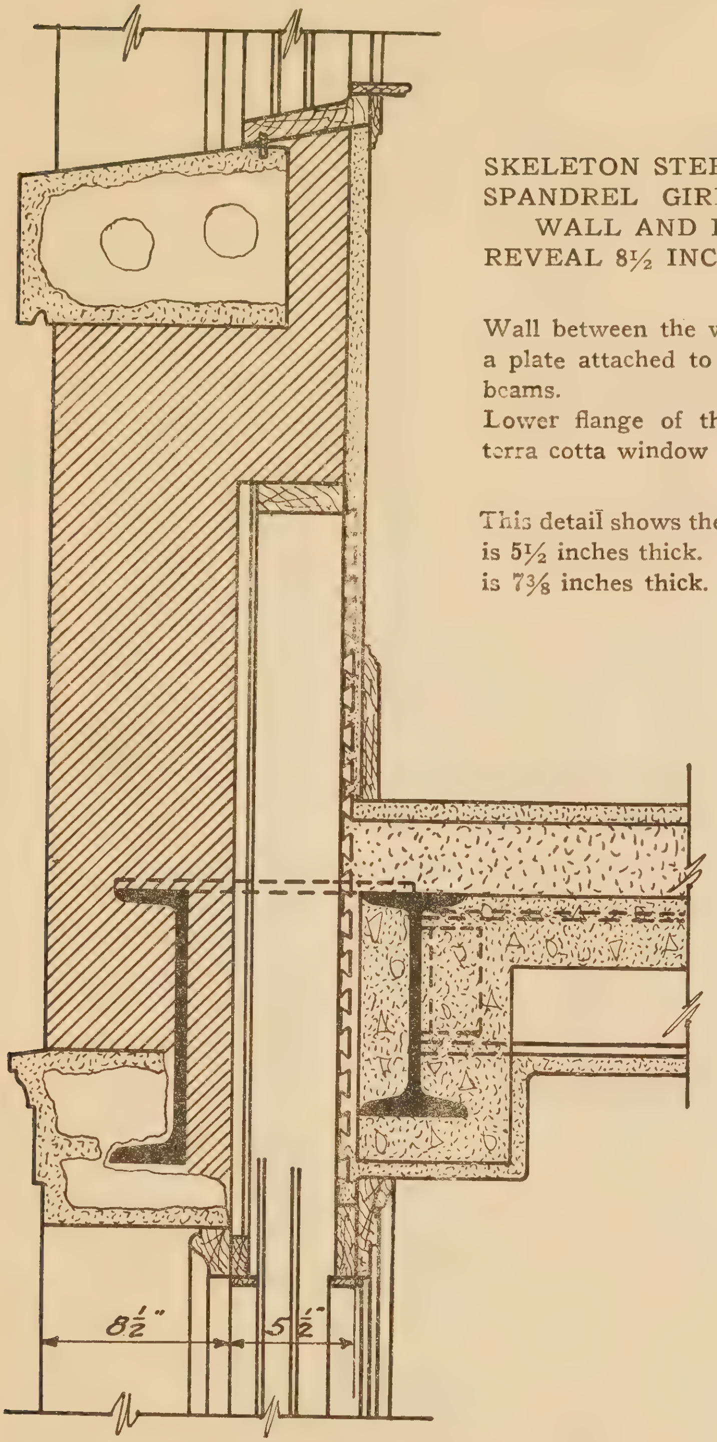
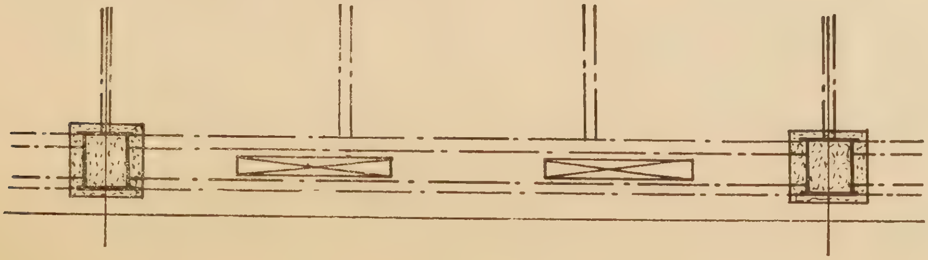
SKELETON STEEL FRAME.
SPANDREL GIRDER SUPPORTING BOTH WALL AND FLOOR.
REVEAL 8½ INCHES.

Wall between the window boxheads supported by a plate attached to the tops of the I and channel beams.

Lower flange of the channel beam supports the terra cotta window cap.

This detail shows the standard two sash frame which is 5½ inches thick. The standard three sash frame is 7⅜ inches thick.

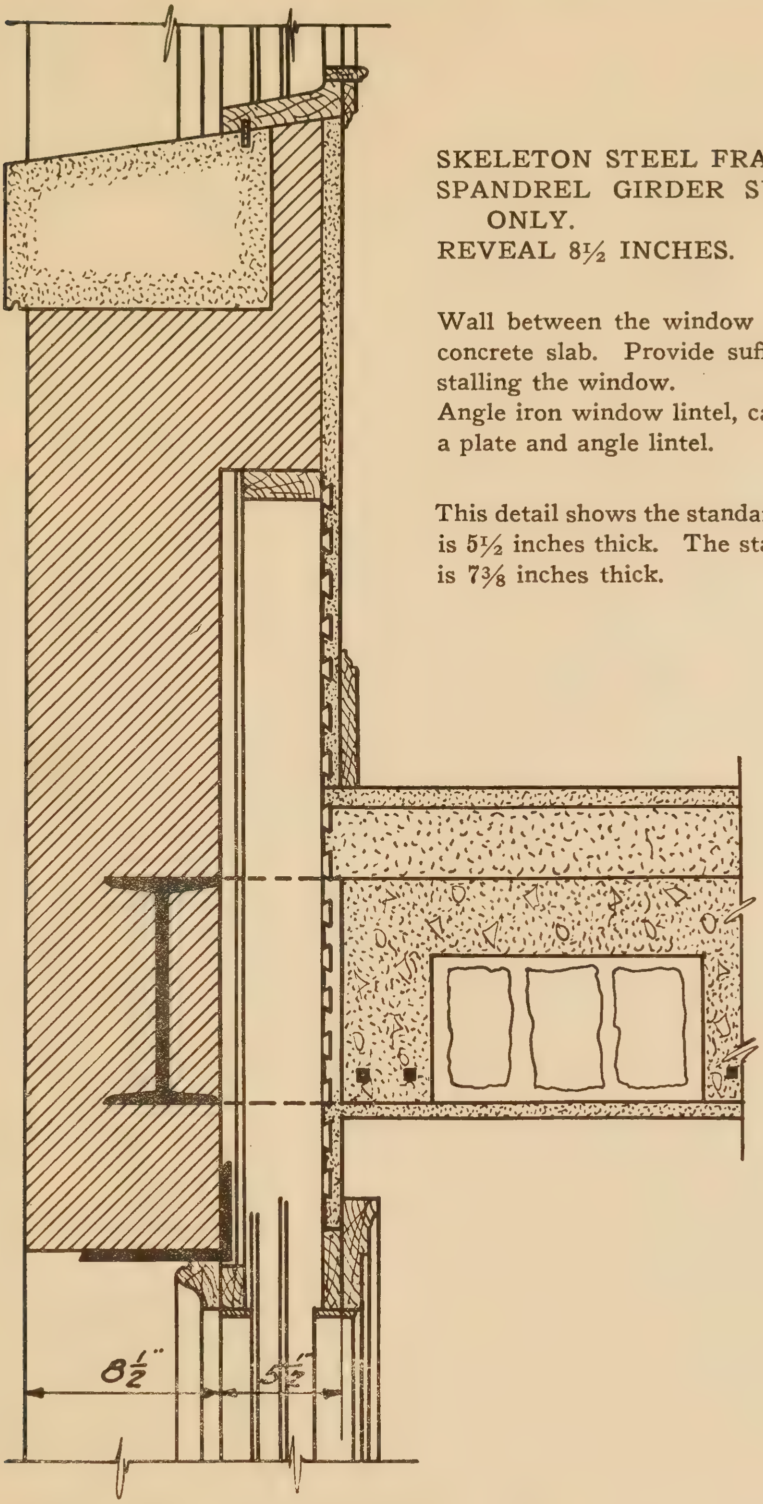


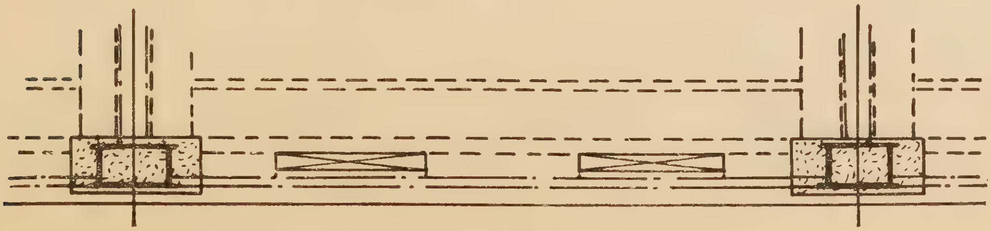


SKELETON STEEL FRAME.
SPANDREL GIRDER SUPPORTING WALL ONLY.
REVEAL 8½ INCHES.

Wall between the window boxheads supported by concrete slab. Provide sufficient clearance for installing the window.
Angle iron window lintel, can be modified by using a plate and angle lintel.

This detail shows the standard two sash frame which is 5½ inches thick. The standard three sash frame is 7⅜ inches thick.

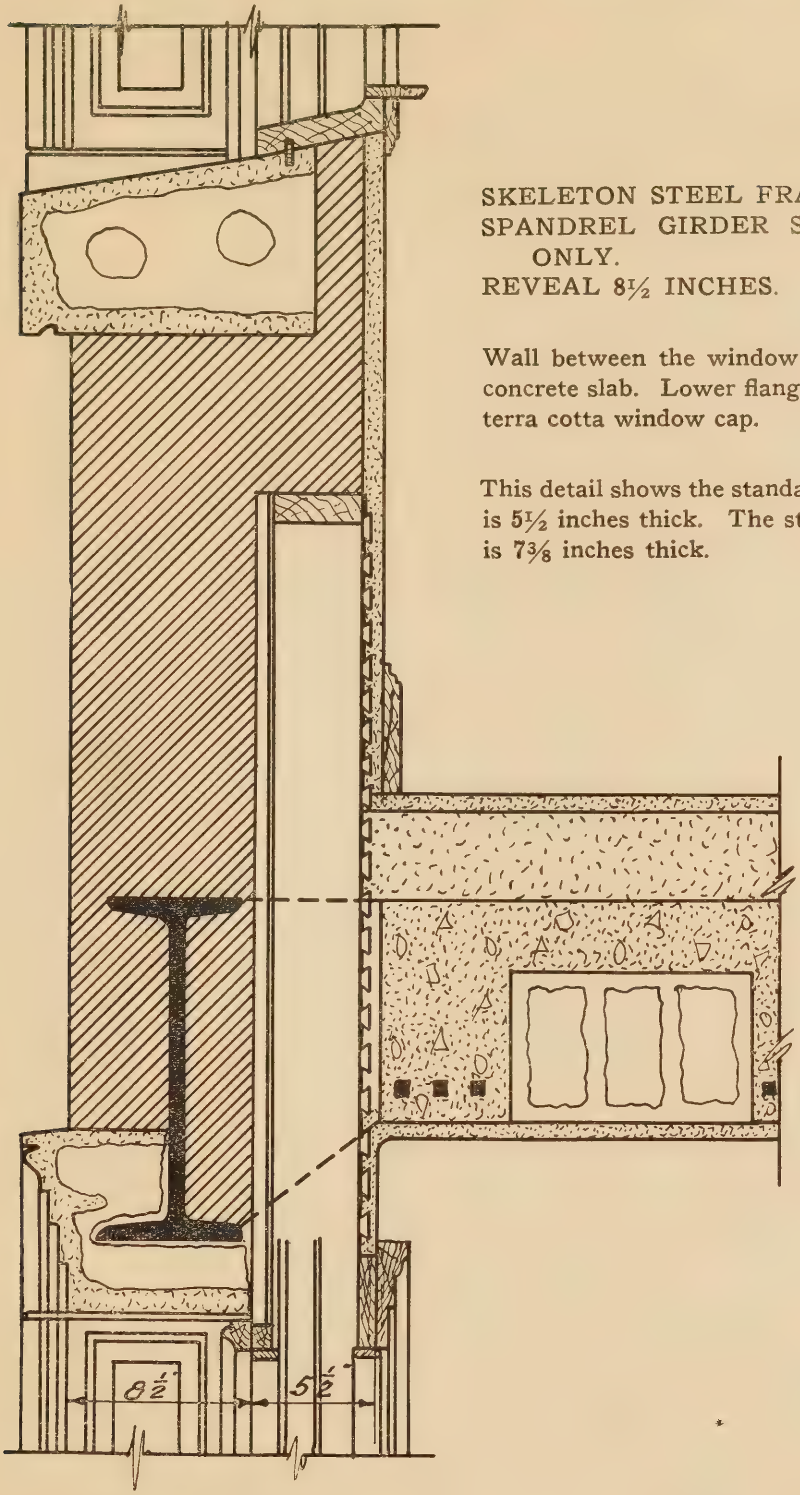


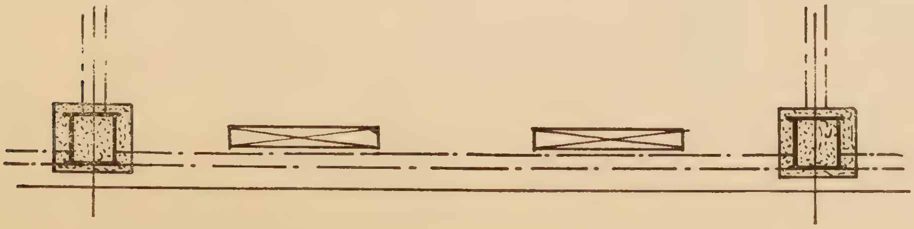


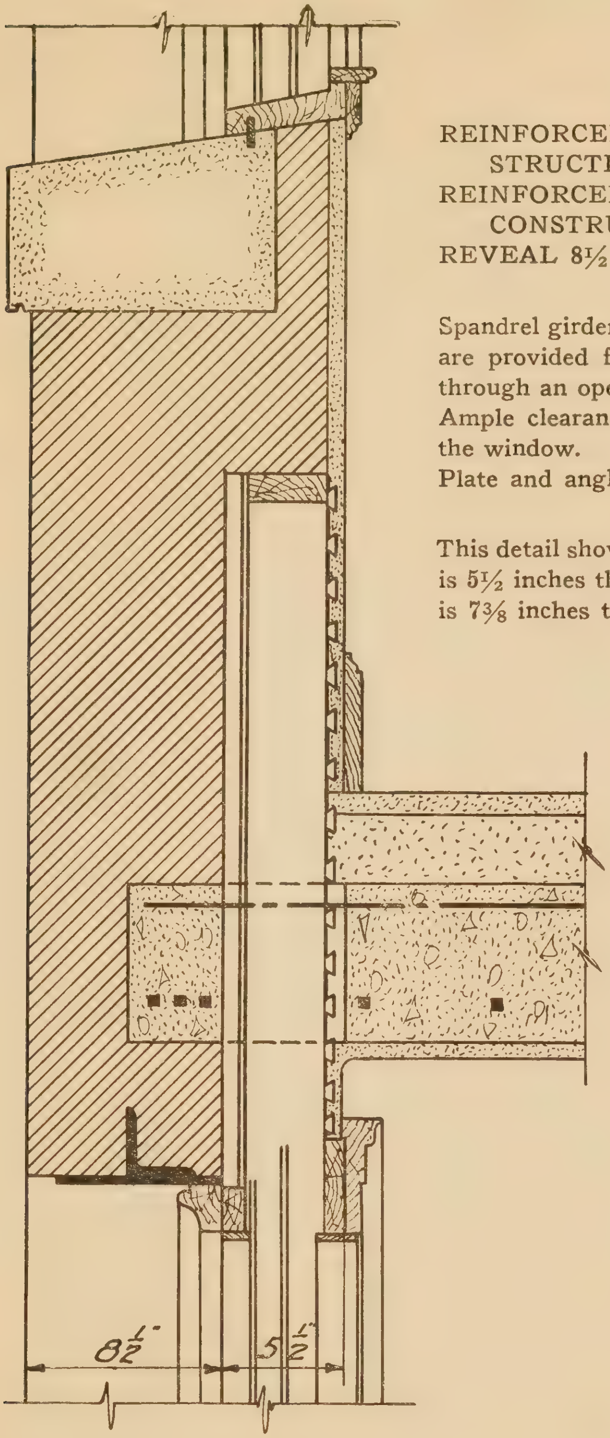
SKELETON STEEL FRAME.
SPANDREL GIRDER SUPPORTING WALL ONLY.
REVEAL 8½ INCHES.

Wall between the window boxheads supported by concrete slab. Lower flange of I beam supports the terra cotta window cap.

This detail shows the standard two sash frame which is 5½ inches thick. The standard three sash frame is 7⅜ inches thick.



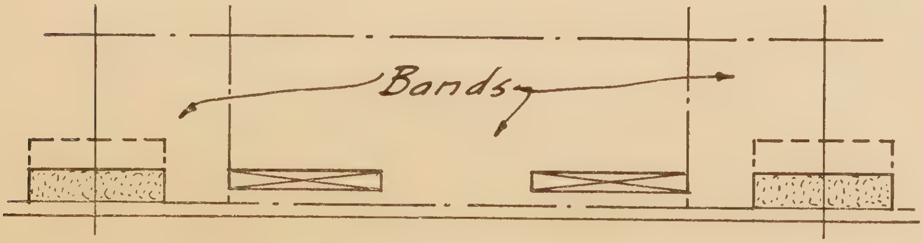


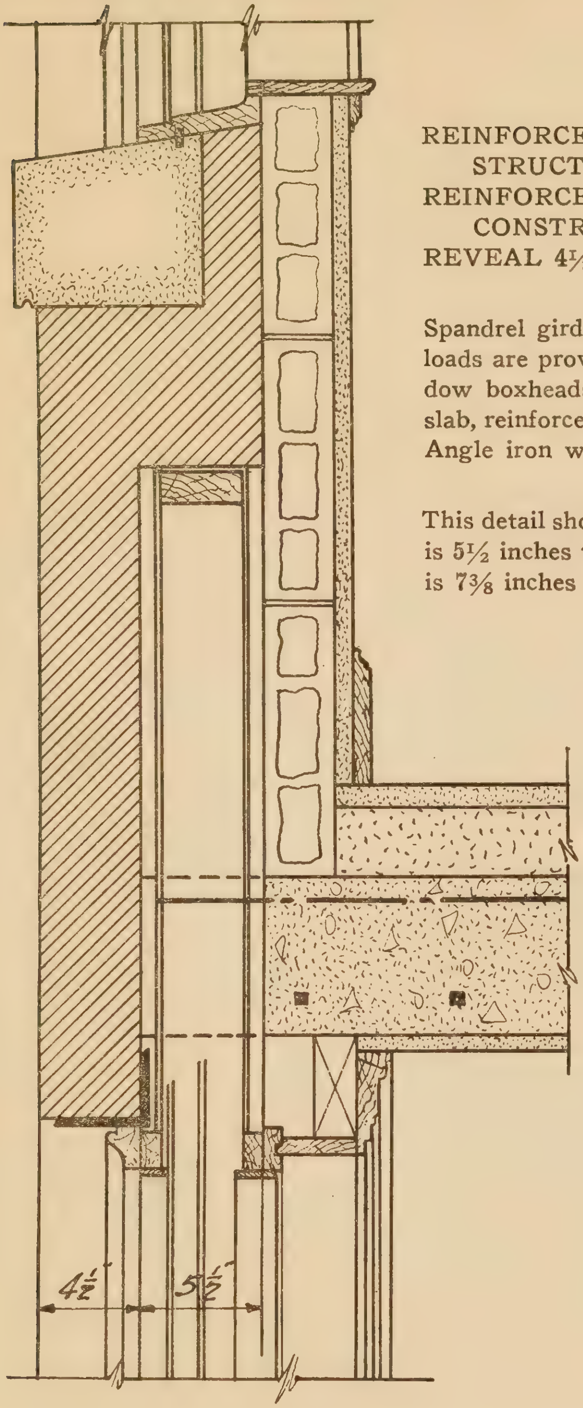


REINFORCED CONCRETE FLAT SLAB CONSTRUCTION.
REINFORCED CONCRETE WALL BEARING CONSTRUCTION.
REVEAL 8½ INCHES.

Spandrel girders not required when light floor loads are provided for. The boxhead is simply passed through an opening made in the floor construction. Ample clearance should be provided for installing the window.
Plate and angle window lintel.

This detail shows the standard two sash frame which is 5½ inches thick. The standard three sash frame is 7⅜ inches thick.

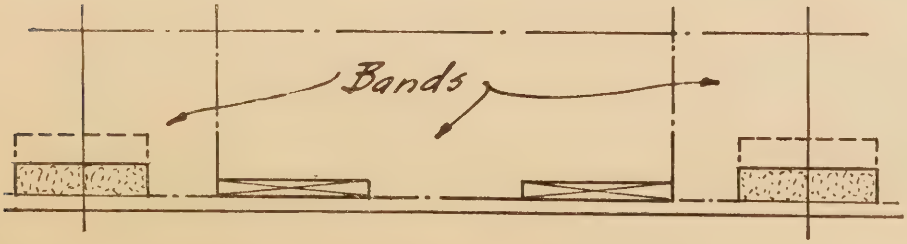


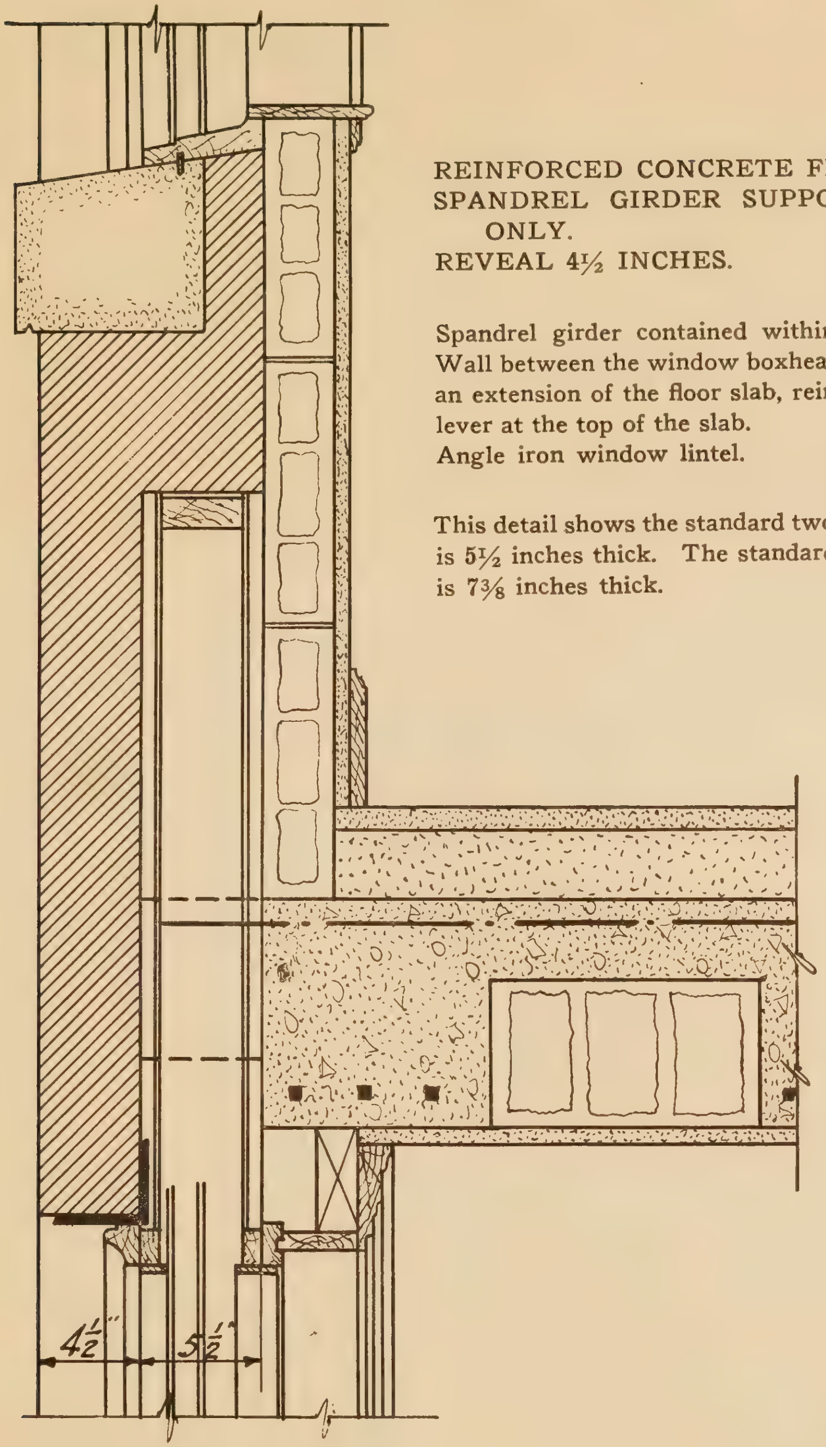


REINFORCED CONCRETE FLAT SLAB CONSTRUCTION.
REINFORCED CONCRETE WALL BEARING CONSTRUCTION.
REVEAL 4½ INCHES.

Spandrel girders are not required when light floor loads are provided for. The wall between the window boxheads is supported by the extended floor slab, reinforced as a cantilever at the top of the slab. Angle iron window lintel.

This detail shows the standard two sash frame which is 5½ inches thick. The standard three sash frame is 7⅜ inches thick.

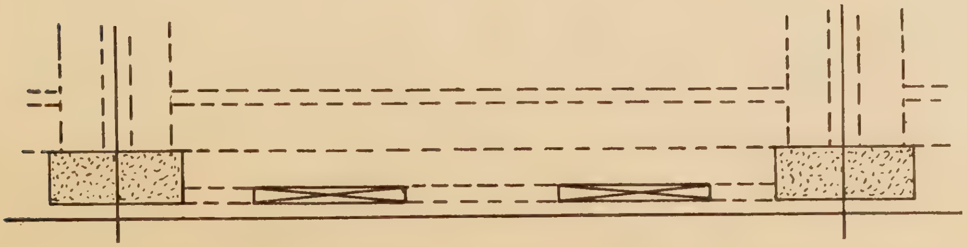




REINFORCED CONCRETE FRAME.
SPANDREL GIRDER SUPPORTING WALL ONLY.
REVEAL 4½ INCHES.

Spandrel girder contained within the floor depth. Wall between the window boxheads is supported by an extension of the floor slab, reinforced as a cantilever at the top of the slab.
Angle iron window lintel.

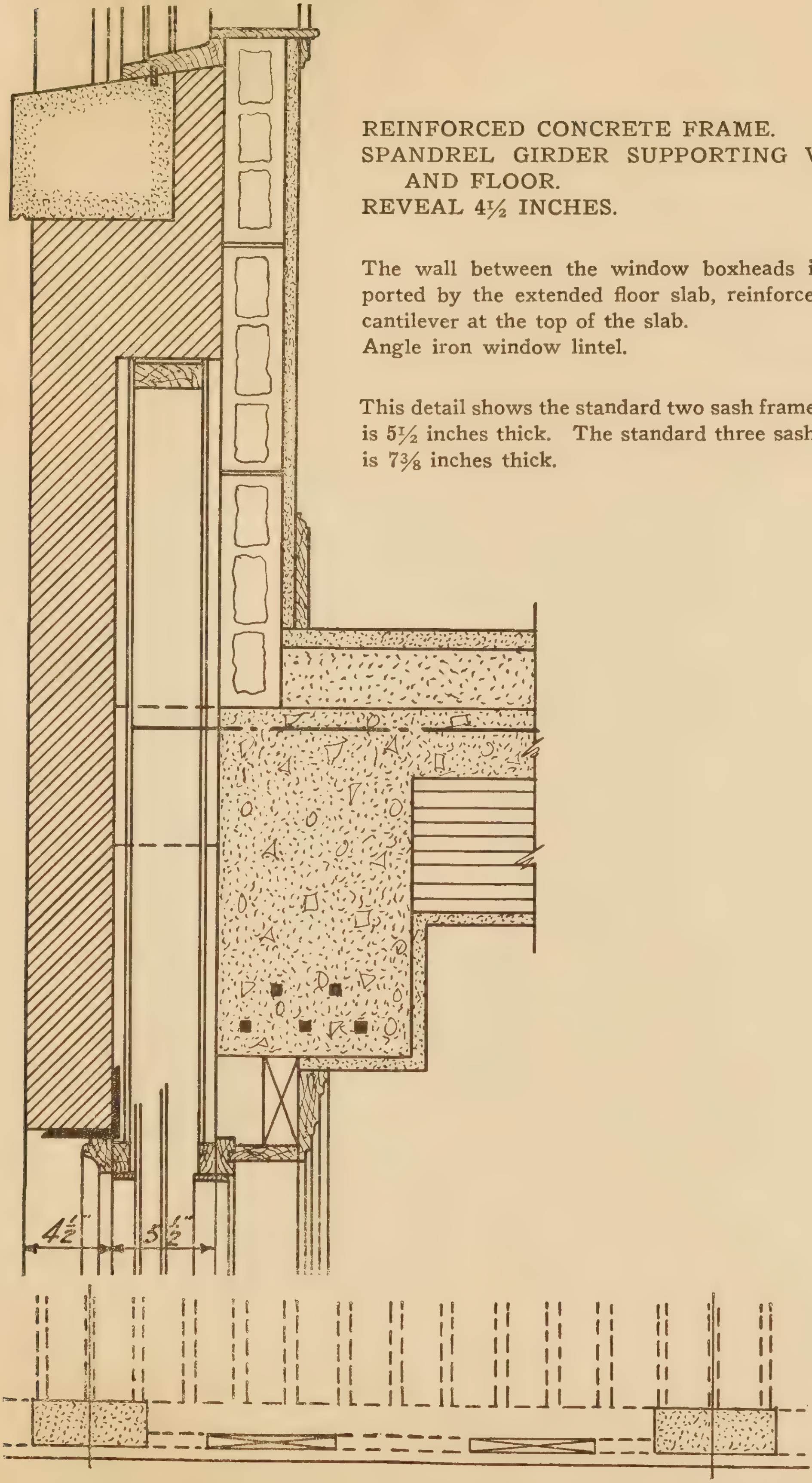
This detail shows the standard two sash frame which is 5½ inches thick. The standard three sash frame is 7⅜ inches thick.



REINFORCED CONCRETE FRAME.
SPANDREL GIRDER SUPPORTING WALL AND FLOOR.
REVEAL 4½ INCHES.

The wall between the window boxheads is supported by the extended floor slab, reinforced as a cantilever at the top of the slab.
Angle iron window lintel.

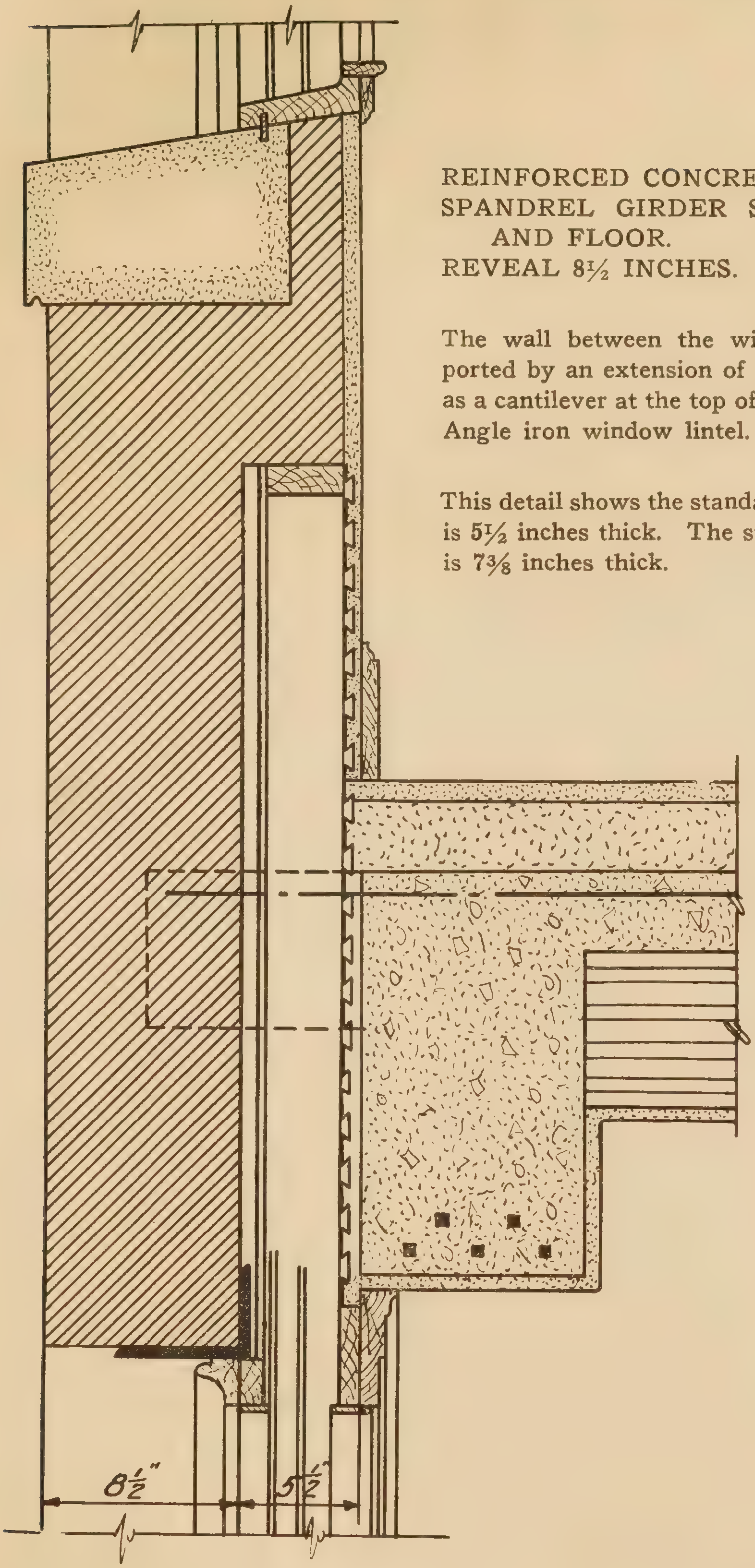
This detail shows the standard two sash frame which is 5½ inches thick. The standard three sash frame is 7⅜ inches thick.

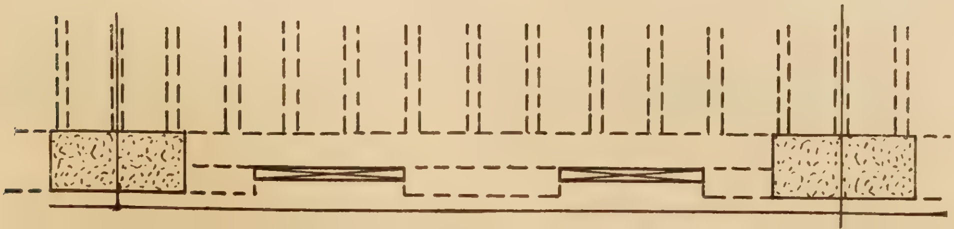


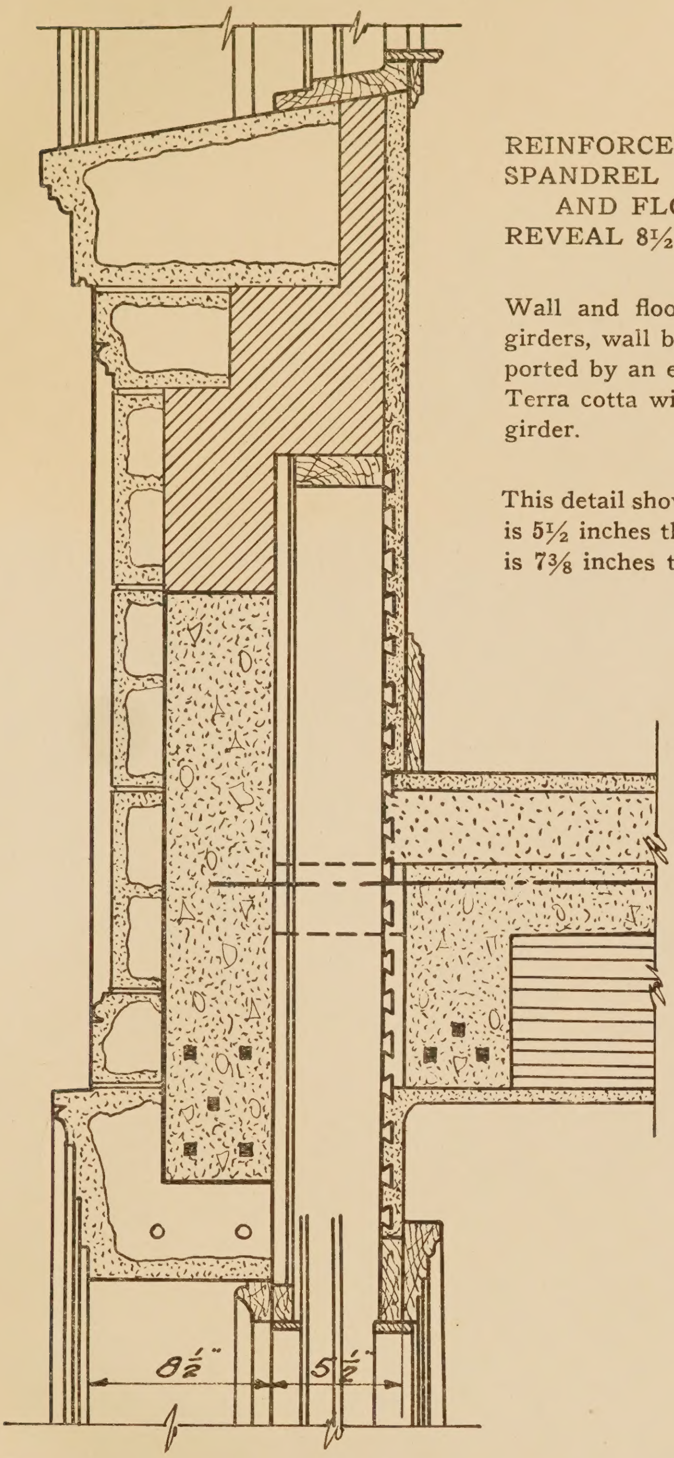
REINFORCED CONCRETE FRAME.
SPANDREL GIRDER SUPPORTING WALL AND FLOOR.
REVEAL 8½ INCHES.

The wall between the window boxheads is supported by an extension of the floor slab, reinforced as a cantilever at the top of the slab.
Angle iron window lintel.

This detail shows the standard two sash frame which is 5½ inches thick. The standard three sash frame is 7⅜ inches thick.



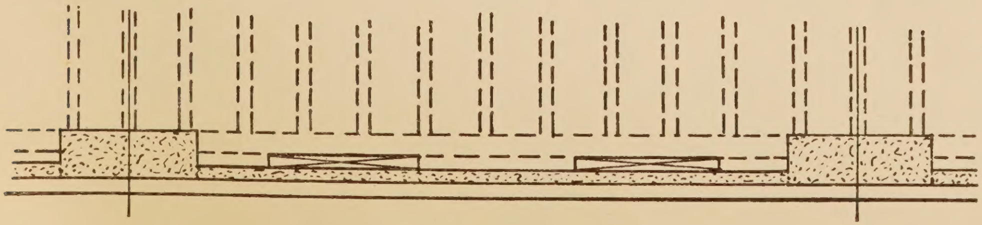




REINFORCED CONCRETE FRAME.
SPANDREL GIRDER SUPPORTING WALL AND FLOOR.
REVEAL 8½ INCHES.

Wall and floor supported by reinforced concrete girders, wall between the window boxheads is supported by an extension of the floor slab reinforced. Terra cotta window cap supported by the concrete girder.

This detail shows the standard two sash frame which is 5½ inches thick. The standard three sash frame is 7⅜ inches thick.



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